

## PATENT ABSTRACTS OF JAPAN

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(71)Applicant : SUMITOMO ELECTRIC IND LTD

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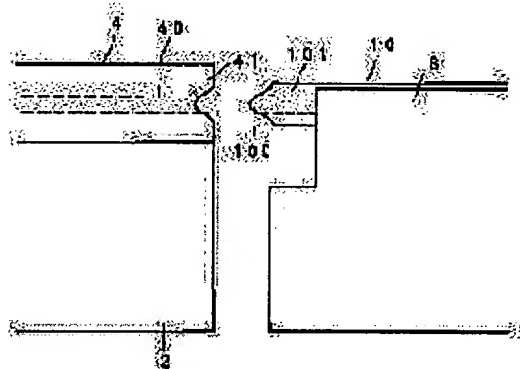
(72)Inventor : SAITO TATSUHIKO  
OZAWA KAZUMASA  
ISHIKAWA SHINJI  
SAITO MASAHIDE  
SUGANUMA HIROSHI

### (54) CONNECTING MECHANISM BETWEEN OPTICAL WAVEGUIDE AND OPTICAL FIBER

(57)Abstract:

PURPOSE: To provide a connecting mechanism between an optical waveguide and an optical fiber which can smoothly transmit light by reducing a complicated aligning work and suppressing a connection loss.

CONSTITUTION: A core 40 on the abutting part of the optical waveguide 4 is recessed so as to have a cross section with an approximate recessed shape to execute aligning work. On the other hand, a core 100 on the abutting part of the optical fiber 10 is protruded so as to have a cross section with an approximate recessed shape to execute the centering work. After abutting both the cores 40, 100 with pressure from both the ends, the abutting part of a positioned coupling holder is welded by YAG without executing vertically aligning work.



### LEGAL STATUS

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